√

Previous references.

1915.
(Education.

File No. 15 of 15.
Serial Nos. 5 & 23.

Later references.

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 5 & 23.

Part B. for December, 915.

SUBJECT

Re: Scholarships to Students for being trained in Leather Industries.

Serial 23. To the Secy. Ed. Dr. of Agc. Secy Agc. Com. Comptr. through Dr II & D. G. of Education no. 2396-600. 25.11.15.

Sanctions the Committees recommendations the practical training period being limited to one year. &

G. R. S. 58

GPB—4,000—4-7-11

B.M. Srivastava
16.12.15.

2

G.R.S. 11] 1915.

GENERAL AND REVENUE SECRETARIAT.

(Educ)

NOTES.

File No. 15

FILE HEADING.

Technical Schps.

From

The Dir., Ec. Conf^ce.

No. 190 Dated 26.7.15 Received 2.8.15.

Diary No. 387	Enclos. 3	Spare Copies. -	Serial No. 5

BRIEF ABSTRACT OF LETTER.

Forwards copy of a note by himself and copy of the proceedings of the Ind. & Com. Committee regarding the training of 3 Mysore Students in the Leather Trades School, Madras, and recommends that 3 schps. of Rs 20 each p.m. may be granted for the purpose

NOTES AND ORDERS.

It is further recommended that these Schps may be treated as part of the Technical Schps. now given in the Education Dept.

2 Tanning is not one of the subjects for which

NOTES—First Sheet.

GPB—35,000—15 6-12

387

G. R. S. 12]

General and Revenue Secretariat. | Edn File No. 15 of 1915.

Serial No.

The technical schps. of the Edn Deptt. are now framed.

3 The notification stating the no. of tech. schps. to be given this year and also specifying the subjects for the study of which the schps. will be given, has already been issued in the Edn Deptt. (Please see part II of the Mysore Gazette of 3.6.15)

4 If the 3 new schps. for the study of leather-industry should be included among the tech. schps. refd. to above, there will be 3 schps. less for the other subjects, and it is a matter for consideration which of the other subjects should be disregarded

5 In the enclosed note it is stated that the schps. may perhaps this year be awarded from the funds at the disposal of the Ind. & Com. Committee, the scheme being transferred to the Edn Deptt. afterwards. Pr. II and the D.P. of Edn have to be consulted in the matter.

7 Forwarded unofficially to the D.P. of Edn in Mysore for favour of opinion.

By order
K Subba Rao
for Secy. to Govt.

Edn
W.O. 38-15
& 10.8.15

4th Augt. 1915

NOTE—Contn. sheet.

GPB—20,000—30-6-15

General and Revenue Secretariat.

Edn File No. 15 of 191 5

No: 22.

Serial No.

8 I think it is desirable to institute three scholarships for the training of Depressed Classes students in the Leather Trades School at Madras. There is no money this year in the Education Budget, nor can any money be found by reappropriation as already the total amount to be met by reappropriation exceeds half a Lakh of rupees. The amount required for this year may be met, if possible, from the Budget of the Industries and Commerce Dept. and from next year provision in the Ed Budget.

Dr. Shama Rao
17 Aug 1915.

Stg

NOTE—Contn. sheet.

GPB—20,000—30-6-15.

G. R. S. 12]

General and Revenue Secretariat.

307 326 5 4

Edn File No. 15 of 1915

Serial No.

Submd with the opinion of the D.P. of Edn. If funds are to be allotted from the grants of the Industries & commerce Dept., the Director of I. & C. may be consulted U.O. Br. II has also to be consulted in the matter.

8/9/15 10 Noted to consult Director of Industries, as the cost this year may be met from the I & Com Committee funds.

11 To Branch II pr favour of opinion

Kh. o. 326 of 1915

RSA

Subd

2/8

12 No financial objn. if considered necessary, & if the amounts req^d are found this year by reappn from the Budget of the Industries & Commerce Committee & in future years from the amount set apart for technical scholarships. It may be however considered if it is necessary to send three students in the first year, & if one or two may not do for VI)

KS 19/8

he. 31/8

NOTE—Contn. sheet.

GPB—25,000—30-4-15.

General and Revenue Secretariat. | File No. 15 of 191 5.

Serial No.

13 Submd. with the opinion of the Fe. Branch. As the schs are now to be sanctioned from the funds of the Industries & Com. Committee, this file may now be transfd. to A & I Section. and further action to include a proviso on the account in the Edn budget of 1916-17 taken in the Edn Section after issue of orders in the A & I Sect.

Sd (14) Submd
4.9.15 The Secretary I & C Committee will be requested to state if it is necessary to send all the 3 students in the first year.

Sd (15) Put up a draft sanctioning
6-9-15 the scheme, the cost for the current year to be met from the funds of the Industries & Commerce Committee.
Please fully narrate the scheme in the meanwhile.

KG
7/9/15

(16) Sd 17 If approved the draft may be submitted to the Member in Council & the Secy

Sd
15-9-15

KG
17/9

(17) Please get the draft typed & submit to Mr Member for appl. It may then be despatched by Calcutta

20/9/15 A 10/9/15

NOTE—Contn. sheet.

GPB—20,000—30-6-15

387

6 ॥

F. R. S. 12]

General and Revenue Secretariat.

Con File No. 15 of 191 5

Serial No.	
19	Typed draft submitted be 20/9/15 20 Forwarded. Asst. Member) Krishnan 21/9 ~~Submitted this~~
21	Approved Hamm 21/9/15
22	To Genl Secy for favour of circulation 22/9/15. 23/9
23	May this be circulated for consideration at a meeting of the Council ? Diwan) Dwarakanath Rao 24/9
1677 24-9-15	24 Agree. It is a very good proposal 30.9.15. A.C.
	C.S. circ. done 30/9
25	6.10.15.

NOTE—Contn. sheet.

GPB—20,000—30-6-15

G. R. S.

Edn 15-15 8-7

Extract from the Proceedings of the 364th Meeting of the Council of His Highness the Maharaja, held at Bangalore on the 11th November 19 15

---

16. SUBJECT.- (Outside the Schedule).

26 Grant of three scholarships of Rs.20/- each per mensem for young men being trained at the Leather Trades School, -- Madras.

OPINION OF THE COUNCIL.

The proposal may be approved.

Sd/- M.Visvesvaraya,
Dewan of Mysore.

"EXTRACT"

D. M. Narasimha Rao 13/11

Secretary to Government,
General Department.

GPB—2,000—5-5-10

G. R. S. 12]

9

8

General and Revenue Secretariat.

Edn File No. 15 of 1915.

Serial No.

27 Extract from the Proceedings of the Council is put up.

Forwarded with compliments to the Secretary to Government.... Departments of Education & Agriculture for favour of necessary further action.

By Order,

D. M. Narasyglas 13/11

Secretary to Government,
General Department.

Please put up
to D. S. N.
13/11.

28

Submitted with a D. S. N.

Dewan)

14.11.15.

17/11

2439
15-11-15

NOTE—Contn. sheet.

W. D. 135—GPB—200—29-7-15

For disposal at a Meeting.

10

No. C. 196.

1 Oct 1915.

GENERAL AND REVENUE SECRETARIAT.

Council Matter.

SUBJECT.
(Outside the Schedule).

Grant of three scholarships of Rs.20 each per mensem for young men being trained at the Leather Trades School, Madras.

CIRCULATED TO THE MEMBERS OF COUNCIL.

By Order,

D. M. Narasinga Rao

Secretary to Government.

1st October 1915.

Extraordinary Member of Council. Seen by the Extraordinary member 5/10/15

First Member of Council. Seen by the First Member of Council.

Second Member of Council. Seen 4/10

GPB—1,000—3-2-14

11/2

Submitted to His Highness.

Flag E

The Industries and Commerce Committee having recommended the grant of three scholarships at the rate of Rs.20/- a month for a period of three years for training Mysore students who have passed the Intermediate Examination, in the Leather Trades School, Madras, the Inspector General of Education was consulted. He is also of opinion that the three scholarships may be sanctioned. The matter was considered in Council who have resolved that the proposals may be approved. A draft order is accordingly submitted for His Highness's approval.

Page 3 of office notes

Page 7 of office notes

Draft for approval

SOM

M. Visvesvaraya

16th Nov. 1918

857

12

ISSUE & SUBMIT.

for FURTHER ACTION

Record of Cases submitted for the Orders of His Highness the Maharaja

Subject.

Grant of scholarships for the training of young men in the Leather Trades School at Madras.

433

Order.

~~KRM~~

19/11/15

3/12/15

7/12

13.12.15.

Law dept 2 of A

20.11.15.

20/11

20/11

887

~~926~~

13

G. R. S. 12]

General and Revenue Secretariat.

Educn File No. 15 of 1915.

Serial No.

Resume of notes

Br II was consulted and on the whole is agreeable to the proposal sanctioned in the order.

Draft & fair endorsements submd

My Bhrg 1/12/15

Communicate he 1.12.15

Communicated 2/12

23 To the Dir. Ex., Dy. of I. &c., Dir. I. &c. Coma, Comptr. thro' Br II & Dy. of Edn. 2396-400 of 25.11.15

Sanctions the committee's recomn. the ~~practical~~ period of practical training being limited to one year; & requests the Dy. to arrange for the admn. of the selected students in the school at Madras, to invite applns & submit selected names for approval of Govt.

The file has been perused by the members of the Council & His Highness's orders have been passed. These papers may be filed.

Asst (V) BL 15.12.15

VH 17/12

B.

NOTE—Contn. sheet.

GPB—20,000—30-6-15

14

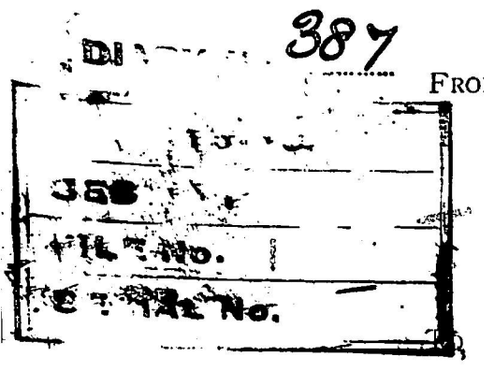
2/8

Tel: Address
At Bangalore & Mysore
"MYSECON."

MYSORE ECONOMIC CONFERENCE,

No. 190
Ex-Three

Dated Bangalore, 26th July 1915.



FROM D. M. Narasinga Rao, Esq., B.A., B.L.,
~~Ex-Sx-BALASUNDARAM-IYER,-Esq.,-B.A.,~~
Secretary to the Mysore Economic Conference,
Bangalore.

D. M. Narasinga Rao, Esq., B.A., B.L.,
Secretary to Government in charge,
Departments of Education & Agriculture,
B a n g a l o r e.

SIR,

In forwarding herewith the accompanying note on the training of three students at the Leather Trades School, Madras, I have the honour to state that the note was considered by the Industries and Commerce Committee at its meeting held on the 3rd April 1915, and to forward herewith for orders of Government, copy of resolution of the Committee to the effect that three scholarships of Rs.20/- each, a month, may be granted to the students willing to undergo training at the Leather Trades School, Madras.

I am to suggest that the scholarships may be treated as part of the Technical Scholarships now given in the Educational Department.

I have the honour to be,

Sir,

Your most obedient servant,

SECRETARY.

Enc. 15
Edu. 15-15-5

Proceedings of the 36th Meeting of the Industries and Commerce Committee, held at Bedford House, Bangalore, on Saturday the 3rd April 1915 at 12 noon.

X X X X X X

(c). Note by the Secretary, Mysore Economic Conference proposing the grant of scholarships to three students for being trained in the Leather Trades School at Madras.

It was suggested in the note that three scholarships of Rs. 20/- a month be given to young men who have passed the Intermediate Examniation in Chemistry for being trained in the Leather Trades School, Madras, for a period of three years and that thereafter the students should be trained in practical work at the Mysore Tannery for a year or eighteen months.

In this connection, the letter of the Superintendent of the Tannery stipulating the conditions under which apprentices will be trained at the Tannery was read. As the Tannery had agreed to train such apprentices as government may nominate, it was decided that this may be pointed out and a revised resolution in conformity with the original agreement requested.

The Committee were in favour of the grant of three scholarships of Rs. 20/- each per month for the purpose during the current year.

X X X X X X

C Ramgamatha Rao Sahib
Secretary, Industry and Commerce committee.

Note. Enc. 15 16/5 Edn. 15-15-5

In view of the importance of the leather industry and trade in Mysore, it is desirable to get a certain number of persons trained in the proper methods of tanning and dealing with leather.

The Madras Government has opened a Leather Trades School in the Madras Technical Institute, Washermanpet Branch. A copy of the prospectus and rules of that school, obtained through the courtesy of Mr.Guthrie, the Principal of the school is appended to this note. According to that prospectus the course in the school will cover a period of three years ordinarily and of two years in the case of students who have a good general knowledge of science and also have some experience of the manufacture of leather. The entrance qualification is the University Intermediate Examination or a special entrance examination in English, Mathematics and Science in the case of those who have not passed the Intermediate. The school charges a fee of Rs.60/- per annum. Both bark tanning and chrome tanning will be taught in the school and the school provides facilities for practical work and laboratory work also.

It seems desirable that we should take advantage of this institution and get a certain number of Mysore young men trained there. After they go through this training we may arrange for a practical course on actual business lines in the Mysore Tannery, for an year or 18 months.

We may immediately send two or three young men for this training. They may preferably be graduates in Chemistry or Intermediate students who have passed in Chemistry or good S.S.L.C. students. A scholarship of Rs.20/- per month may be given for the period of training in Madras. A subsistence allowance of Rs.25/- may be given during the further period of practical work in the Mysore Tannery. The scholarships this year may perhaps be awarded from the funds at the disposal of the Industries and Commerce Committee and the whole scheme may afterwards be transferred to the Education Department.

17/2

In the prospectus of the school it is said that the term begins in June and that applications for admission must be made not later than 1st March. We may perhaps get our students admitted as a special case though the time for applications has passed.

The cost of the scheme will be as follows:-

(1) Three scholarships at Rs.30 each per mensem		..Rs.720 (a year)
--do--	for 3 years.	Rs.2,160
(2) Subsistence allowance for one year at Rs.35/- per mensem		Rs. 900

The cost of the whole course running over three years including the subsistence allowance to be paid thereafter is Rs.3,060 if the practical course extends over one year, and Rs.3.510 if the same continues for six months more.

R Subbarao

SECRETARY.

DEPARTMENT OF INDUSTRIES

MADRAS TECHNICAL INSTITUTE

WASHERMENPET BRANCH

LEATHER DEPARTMENT

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS

1915

Not for Sale

19

DEPARTMENT OF INDUSTRIES.

MADRAS TECHNICAL INSTITUTE

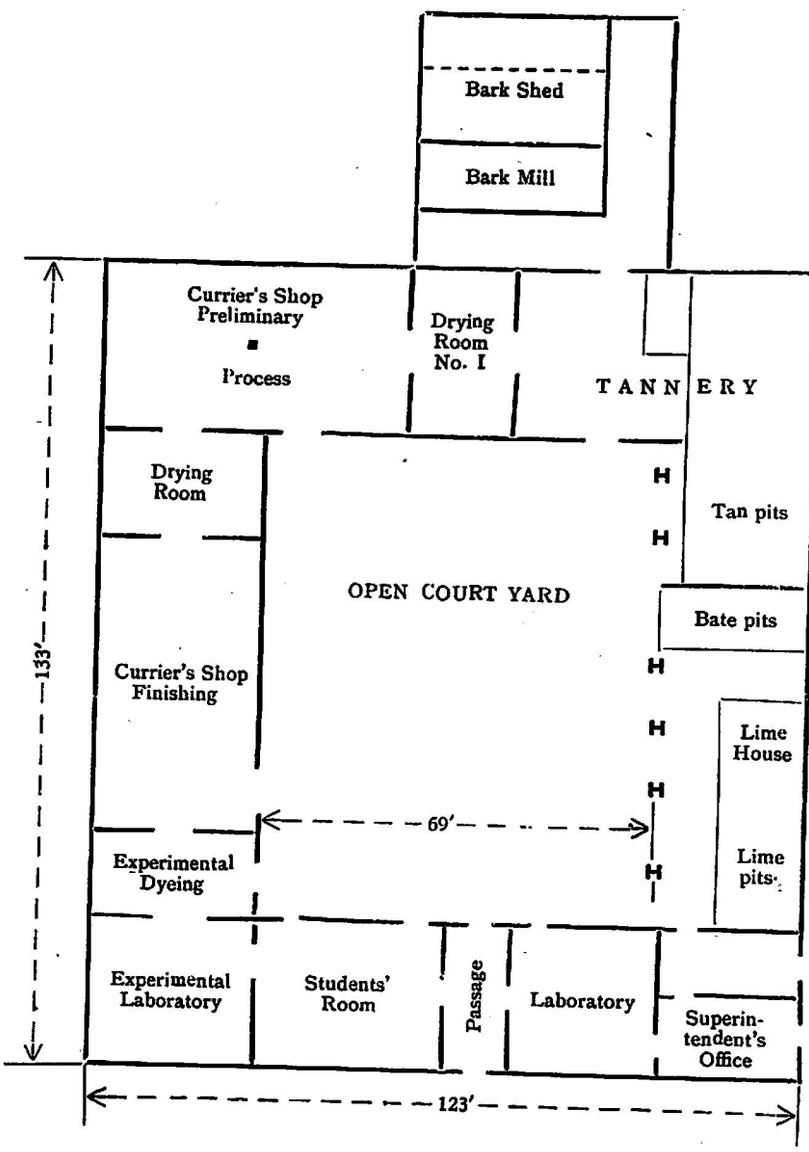
WASHERMENPET BRANCH.

LEATHER DEPARTMENT

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS

1915.

PLAN OF MADRAS LEATHER TRADE SCHOOL



MADRAS TECHNICAL INSTITUTE.

LEATHER DEPARTMENT.

SITUATED near the junction of Tiruvottiyur High Road and Kativakam High Road, this school is very easy of access as the trams pass within two hundred yards and Washermenpet station is but little further away.

The Leather Department consists of an almost square single storey building as shown in the preceding plan.

Until the completion of the main building of the Technical School the students' room will be used for lectures. When the main building is finished it is intended to remove the Chemical Laboratory and lecture room there, the room now set apart for the laboratory being then put to other use.

The lime-house contains a number of soak, lime and bate pits all above ground level, so as to be easily drained, together with a washing drum and paddle, whilst knives and beams for unhairing, fleshing and scudding of both European and Indian patterns are provided for instructional purposes. In the tannery there are a set of leaches for extracting bark, six pits for suspending hides and fifteen pits for handling or laying away hides and skins. All these pits drain into a well from which liquor can be pumped by means of a brass centrifugal pump. A tanning drum and paddle are also provided. The currier's shop is provided with machines for stoning, shaving, splitting, glazing, staking, and fluffing and with drums for dyeing and stuffing. The necessary hand tools for each process tables and drying room are also provided.

The Experimental Dyeing room and Laboratory are fitted with small drums, etc., so that experiments can be carried out on quite a small scale and students will be taught the methods of using various dyes, etc., before being allowed to carry out tests on a larger scale. The Chemical Laboratory is fitted with the necessary apparatus for the thorough examination of materials used in the various processes of leathers manufacture and for research on subjects connected with the leather trade. The Chemical Laboratory will be open only

to students with a sufficient knowledge of chemistry and those who intend to specialise as Leather Trade Chemists, but ordinary students will be taught the simpler methods used in chemical control and the necessary apparatus for this will be found in the Experimental Laboratory.

The bark store and mill are in a separate building at the rear of the tannery.

SESSION.

The school year will date from about June 20 and there will be vacations from April to June, and at Christmas.

ADMISSION.

In general students will only be admitted at the beginning of June term and the application for admission must be made not later than 1st March of every year. Application forms may be obtained from the Principal. The applications must be accompanied by a letter of recommendation from the applicants' employers or the Headmaster of the school last attended and a certificate of physical fitness signed by a qualified medical officer. Candidate must not be under 16 years of age and if they have not passed the Intermediate Examination of a recognised University will be required to undergo an entrance examination.

ENTRANCE EXAMINATION.

The entrance examination will be held in Madras and will consist of the following :—

(i) English composition (a short essay to be written on some subject of general interest) (1 hour).

(ii) A short oral examination in English.

(iii) Mathematics, Arithmetic and Algebra (1 hour each paper).

(iv) Science.

All candidates will be required to attain a certain standard in Nos. (i—iii), but failure in No. (iv) will not cause any candidate to be rejected provided that he also does not show general weakness in Nos. (i—iii).

Admission will be strictly limited to the accommodation available, and candidates who already have some knowledge of the leather trade, sons of tanners and others employed in the trade will have preference over those who have no connection with it.

FEES.

The fees will be Rs. 60 per annum and must be paid in advance.

LECTURES.

I. General Science (by Senior Assistant).—Lectures two days a week with two additional revision and tutorial classes when students will be asked questions on the lectures they have heard and may ask for further information on points not understood by them.

This course is intended to enable such students as have not a sufficient knowledge of chemistry and physics to take full advantage of the lectures dealing directly with leather manufacture.

The subjects dealt with will be chiefly chemical, but a certain amount of other sciences, a knowledge of which is necessary, will also be taught.

II. The principles of leather manufacture (by the Principal).—Lectures two days a week with an additional tutorial class when question may be asked on any points dealt with in the lectures which the students do not quite understand. The lectures will combine the following subjects :—

Hids and Skins.—The sources of supply and methods of cure and use of antiseptics.

Soaking and washing of hides and skins.

Liming. The action of lime and its action on the skin, hair, etc.

Unhairing, fleshing, etc.

Differences due to different limes.

Other depilatants.

Removal of lime. Working in water, bating, puering and drenching, scudding.

Vegetable tanning materials, methods of use with special particulars regarding Indian materials.

The use of vegetable materials, for the tannage of different classes of leathers such as sole dressing leathers, skins, etc.

Alum and the methods of use for white leathers, skins, etc.

Chrome tannages. "One" and "Two" bath methods, materials used and results.

Other mineral tannages.

Oil chamois leathers, fat leathers.

Formaldehyde and other organic chemical tannages.

Combination leathers (particularly with reference to the retanning of E.I. tanned stock).

III. Methods of tanning (by the Principal).—Lectures two days a week throughout the session dealing with the following subjects :—

Indian methods—

Soaking and liming.

Bag tannage.
Tub tannage.
Other Indian methods.

Other methods—
Sole leathers.
Dressing leathers.
Skin leathers.
Chrome and other mineral leathers, etc.

IV. Methods of currying and finishing.—Two days a week throughout the session dealing with the following subjects:—

Rounding, scouring, shaving, splitting and setting.
Stuffing and fat-liquoring.
Dyes and their application. Effects of various impurities in water, etc.
Finishing, glazing, staking, etc.
Machines used in the trade.

V. Book-keeping.—Two classes per week.

VI. Elementary Engineering.—Lectures two days a week.

PRACTICAL WORK.

During the year small packs of all classes of leather for which there is a demand in India will be manufactured from the raw material to the finished article and the students will be taught the use of the tools used in the various processes and will themselves, as far as possible, do all the work in connection with the various processes. Whilst these leathers are in process students will test the liquors, etc., used, and take note of quantities used, etc., and will, where possible, carry out small parallel experiments in the experimental laboratory using different quantities, etc., so as to be able to see what effect these differences make on the finished article. Senior students will also be expected to go into the question of cost of the different processes.

Students who wish to carry out experiments on a small manufacturing scale will first of all have to satisfy the Principal as to their capability for carrying out these processes and will only be allowed to carry out experiments that do not interfere with the general practical work of the department.

The work in the experimental laboratories will comprise testing of various materials used, and experimenting on a small scale, especially with the idea of showing how different faults arise and how these can best be avoided or remedied.

THREE YEARS' COURSE.

The general course for students will extend over a period of three years; for students who have a good general knowledge of science and also have some experience in the manufacture of leather this may at the discretion of the Principal be reduced to two.

Three Years' Course.

First year.—Students will attend the course of lectures on General science (No. I, page 5), on Book-keeping (No. V, page 6) and on Elementary Engineering (No. VI, page 6), they will attend all practical demonstration in the tannery and be taught the use of certain tools used in tanning and currying. The simplest methods of chemical control will also be taught, such as testing acidity and basicity of different liquors, strengths of commercial acids, etc.

Second year.—Students will attend the course of lectures on the principles of leather manufacture (No. II, page 5) and all practical demonstrations in tanning and will be allowed to make practical experiments on an experimental scale. They will also be taught further methods of chemical control such as the valuation of certain chemicals and liquors.

The use of all tools will also be taught, as also that of certain of the machines.

Third year.—Students will attend lectures on methods of tanning (No. III, page 5), and currying and finishing (No. IV, page 6).

Third year students will be expected to keep account of cost of all materials used in different processes in the tannery and will be taught the use of the machines and tools which they have not used before. Those who wish to specialise on any branch of work will be allowed to carry out experiments on a semi-manufacturing scale provided they supply their own materials and do not interfere with the general practical courses being carried out.

Two Years' Course.

First year.—Students taking this course will have the same programme as the second year student taking the three years' course together with the book-keeping and elementary engineering lectures.

Second year.—As for third year of three years' students.

N GUTHRIE,
Principal.

Re Scholarships to Students 26
for being trained in leather industries

ISSUE & SUBMIT.
FOR FURTHER ACTION

Comp
2408 2461
8-12-15

PROCEEDINGS OF THE GOVT. OF HIS HIGHNESS
THE MAHARAJA OF MYSORE.

----:o:----

Read--

Letter No.190 dated 26th July 1915 from the Secretary, Economic Conference submitting a recommendation of the --- Industries and Commerce Committee proposing the grant of 3 scholarships of Rs.20/- each per mensem for young men being trained at the Leather Trades School, Madras.

-----:o;O;o:-----

Order--No. 2396-600/E&15:15:-23.
Dated Bangalore, 25th Nov 1915

The Committee consider that, in view of the importance of the leather industry and trade in the State, a certain number of young men may be trained in the proper methods of tanning and dealing -- with leather. They accordingly propose that three scholarships of the value of Rs.20/- a month be granted for a period of three years to young men who have -- passed the Intermediate Examination in Chemistry for being trained in the Leather Trades School, Madras, and that thereafter the students should be trained at the Mysore Tannery for a year or 18 months, a subsistence allowance of Rs.25/- per mensem being granted during the period of practical work in the Mysore Tannery.

3. scholarships of the value of Rs.20/- each per mensem for 3 years. .. Rs.2160.

Subsistence allowance for one year at Rs.25/- per mensem. " 900.

Total. Rs.3060 or Rs.3510, if the latter - period is 18 months.

2. The entire scheme is estimated to cost Rs.3060 or Rs.3510 according as the practical training is for one year or 18 months.

3. The Inspector-General of Education who was consulted in the matter is in -- favour of the proposal, Government are accordingly pleased to sanction the --- Committee's recommendation as set forth above, the practical period of training being limited to one year. The cost -- during the current year will be met out of the funds at the disposal of the --- Industries and Commerce Committee.

4. The scholarships herein sanctioned will be included among the ~~Technical~~ Scholarships now granted by the State annually and the necessary provision made therefor in future budgets of the Education Department.

5. The Inspector-General of Education is requested to arrange for the admission of the candidates to be selected in the Madras Leather Trades School, invite applications and submit the names of candidates selected by him for approval to Government.

Ms 21/9

Secretary to Government,
Deptts.of Education&Agriculture.
23/9/15

To

The Secretary, ~~Industries and Commerce~~. Ec. Confl.
" Director of Industries and Commerce.
" Secretary, I.& C. Committee.
" Comptroller to Govt. thro' Br. II.
" Inspector-General of Education.